CLAIM AMENDMENTS

The following is a complete listing of the pending claims:

CLAIMS

1. (Currently amended) A method for detecting a positioning signal, the positioning signal being divided into segments, comprising:

processing each segment in a subset of the segments by:

correlating the a segment of a received positioning signal with a reference signal of a selected code phase and frequency to obtain a complex correlation value;

processing the complex correlation value to provide a non-coherent correlation value;

summing the non-coherent correlation value with a previously-calculated non-coherent integration sum to provide a current non-coherent integration sum;

if the current non-coherent integration sum correlation value is less than a predetermined minimum, assigning the correlation value current non-coherent integration sum to the predetermined minimum; and

upon processing of a sufficient number of the segments, processing the current non-coherent integration sum to determine whether the positioning signal is detected according to the selected code phase and frequency

accumulating the correlation value in a sum of correlation values obtained using other segments of the received positioning signal.

2. (Currently amended) A method as in Claim 1, further comprising wherein processing the complex correlation value includes obtaining a modulus of the complex correlation value and reducing the modulus correlation value by a predetermined value.

3. (Currently amended) A method as in Claim 2, wherein the modulus correlation value is reduced by an expected mean value for a noise component in the segment of the received positioning signal.

4. (Currently amended) A method as in Claim 3 ~~1~~, <u>wherein processing the complex correlation value includes</u> ~~further comprising~~ quantizing the <u>modulus</u> ~~correlation value~~.

5. (Cancelled)

6. (Currently amended) A method as in Claim 1, ~~further comprising~~ <u>wherein processing the current non-coherent integration sum includes</u> comparing the <u>current non-coherent integration</u> sum ~~of correlated values~~ to a predetermined threshold value.

7. (Currently amended) A method as in Claim <u>1</u> 6, <u>wherein the sufficient number of segments is reached if</u> ~~accumulating is not further carried out for additional segments of the received positioning signal when~~ the <u>current non-coherent integration</u> sum ~~of correlated values~~ exceeds ~~the~~ <u>a</u> predetermined value.

8. (Cancelled)